

RESEARCH NEWS

e202313421 **Pivoting to a new view of tropomyosin movement**
Ben Short

COMMENTARY

e202213292 **Super relaxed myosins loosen up to different cues in cardiac and skeletal muscle sarcomeres**
Wout J. Claassen and Coen A.C. Ottenheijm

REVIEW

e202213206 **The role of Zn²⁺ in shaping intracellular Ca²⁺ dynamics in the heart**
Amy M. Dorward, Alan J. Stewart, and Samantha J. Pitt

ARTICLES

e202313387 **Troponin-I-induced tropomyosin pivoting defines thin-filament function in relaxed and active muscle**
William Lehman and Michael J. Rynkiewicz

e202213150 **Remodeled connexin 43 hemichannels alter cardiac excitability and promote arrhythmias**
Mauricio A. Lillo, Manuel Muñoz, Paula Rhana, Kelli Gaul-Muller, Jonathan Quan, Natalia Shirokova, Lai-Hua Xie, Luis Fernando Santana, Diego Fraidenraich, and Jorge E. Contreras

e202313352 **Molecular rearrangements in S6 during slow inactivation in *Shaker-IR* potassium channels**
Tibor G. Szanto, Ferenc Papp, Florina Zakany, Zoltan Varga, Carol Deutsch, and Gyorgy Panyi

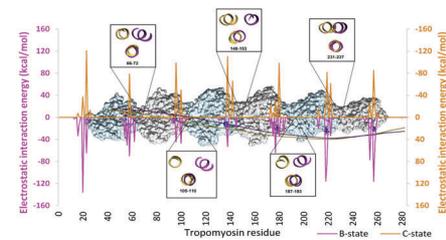
COMMUNICATIONS

e202213268 **Physical activity impacts resting skeletal muscle myosin conformation and lowers its ATP consumption**
Christopher T.A. Lewis, Lee Tabrizian, Joachim Nielsen, Jenni Laitila, Thomas N. Beck, Mathilde S. Olsen, Marija M. Ognjanovic, Per Aagaard, Rune Hokken, Simon Laugesen, Arthur Ingersen, Jesper L. Andersen, Casper Soendenbroe, Jørn W. Helge, Flemming Dela, Steen Larsen, Ronni E. Sahl, Tue Rømer, Mikkel T. Hansen, Jacob Frandsen, Charlotte Suetta, and Julien Ochala

e202213317 **Extracellular histone proteins activate P2XR7 channel current**
Rua'a Al-Aqtash, Maxwell S. Ross, and Daniel M. Collier

CORRECTION

Correction: Segregation of Ca²⁺ signaling in olfactory signal transduction
Hiroko Takeuchi and Takashi Kurahashi



ON THE COVER

As tropomyosin moves during its regulatory transitions from the blocking B-state (magenta) to the closed C-state (gold) during activation, it pivots about one of the helices in its coiled coil (inset boxes), exposing myosin binding sites on actin (surface) while maintaining key electrostatic interactions with actin (energies per residue shown)

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